1/3

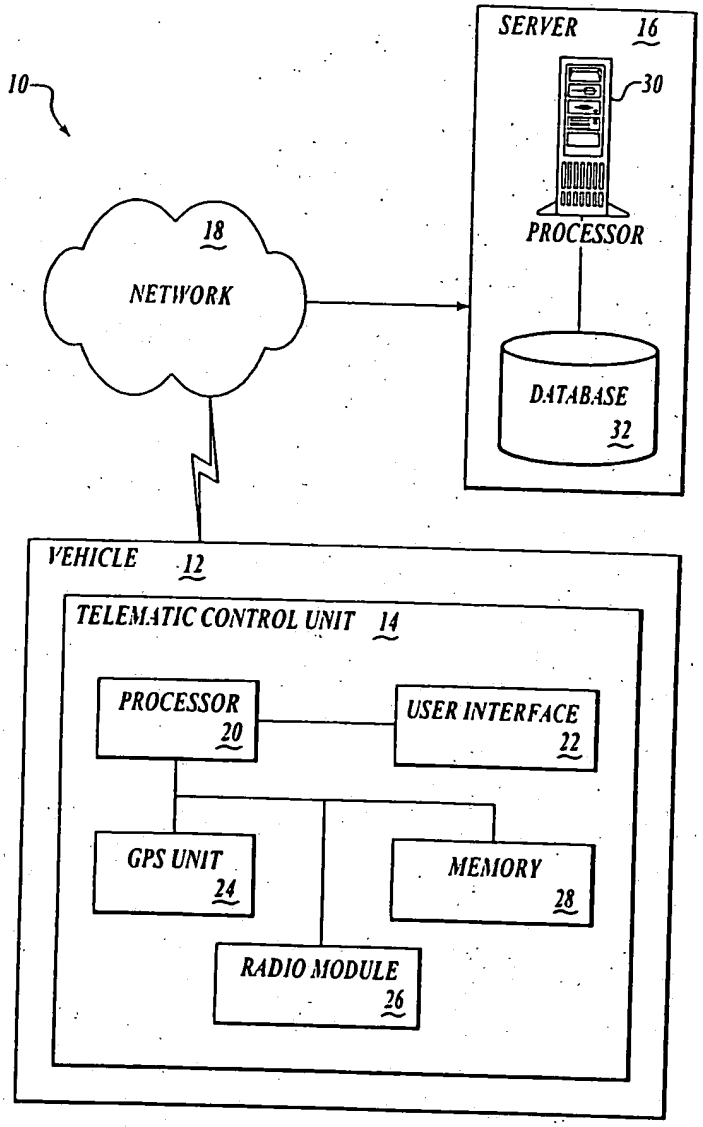
10
SERVER 16
30
PROCESSOR
18
NETWORK
DATABASE
32
VEHICLE 12
TELEMATIC CONTROL UNIT 14
PROCESSOR
20
USER INTERFACE
22
GPS UNIT
24
MEMORY
28
RADIO MODULE
26

FIG. 1.

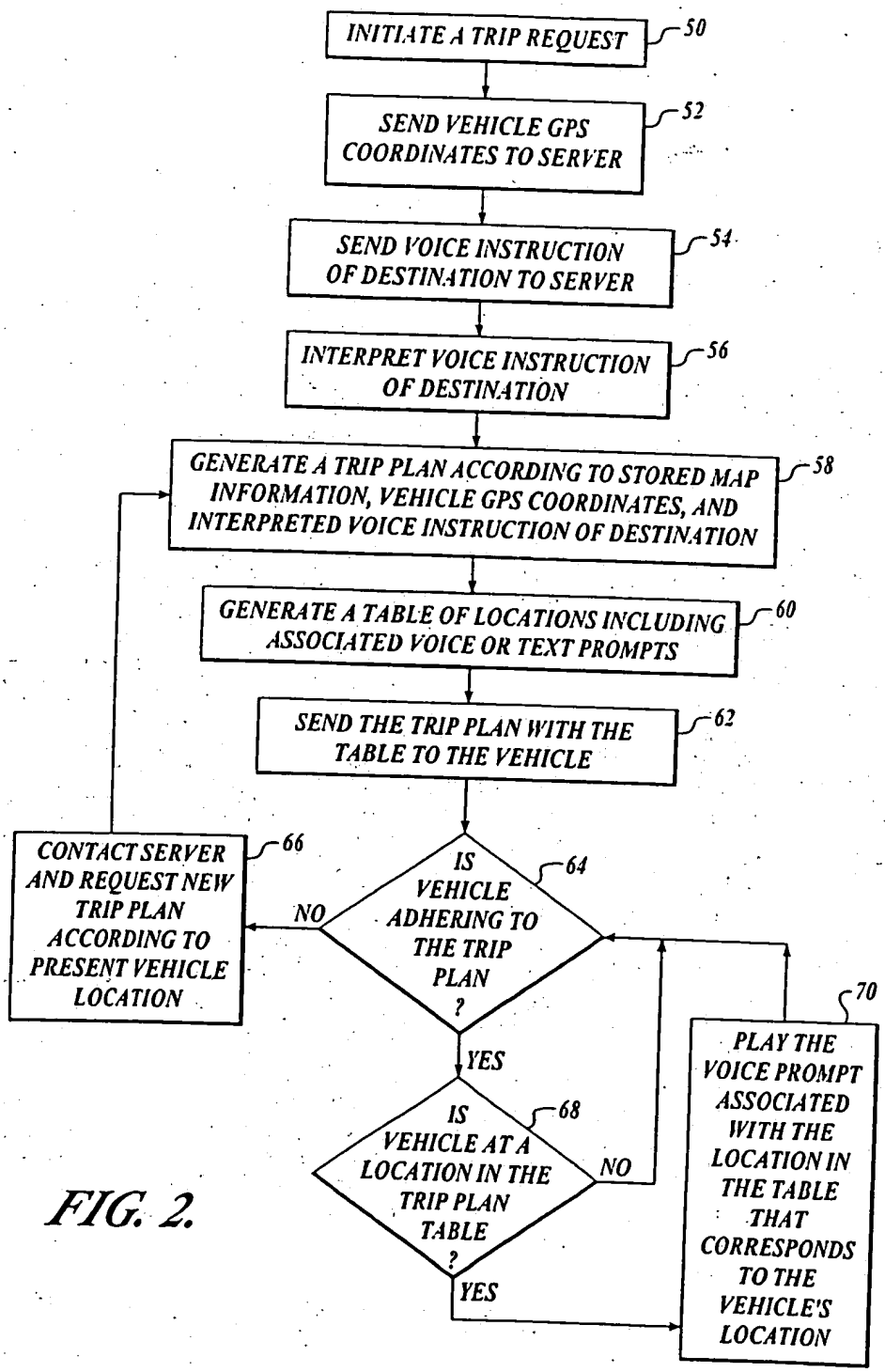
INITIATE A TRIP REQUEST
50
SEND VEHICLE GPS COORDINATES TO SERVER
52
SEND VOICE INSTRUCTION OF DESTINATION TO SERVER
54
INTERPRET VOICE INSTRUCTION OF DESTINATION
56
GENERATE A TRIP PLAN ACCORDING TO STORED MAP INFORMATION, VEHICLE GPS COORDINATES, AND INTERPRETED VOICE INSTRUCTION OF DESTINATION
58
GENERATE A TABLE OF LOCATIONS INCLUDING ASSOCIATED VOICE OR TEXT PROMPTS
60
SEND THE TRIP PLAN WITH THE TABLE TO THE VEHICLE
62
IS VEHICLE ADHERING TO THE TRIP PLAN ?
64
NO
CONTACT SERVER AND REQUEST NEW TRIP PLAN ACCORDING TO PRESENT VEHICLE LOCATION
66
YES
IS VEHICLE AT A LOCATION IN THE TRIP PLAN TABLE ?
68
NO
YES
PLAY THE VOICE PROMPT ASSOCIATED WITH THE LOCATION IN THE TABLE THAT CORRESPONDS TO THE VEHICLE'S LOCATION
70

FIG. 2.

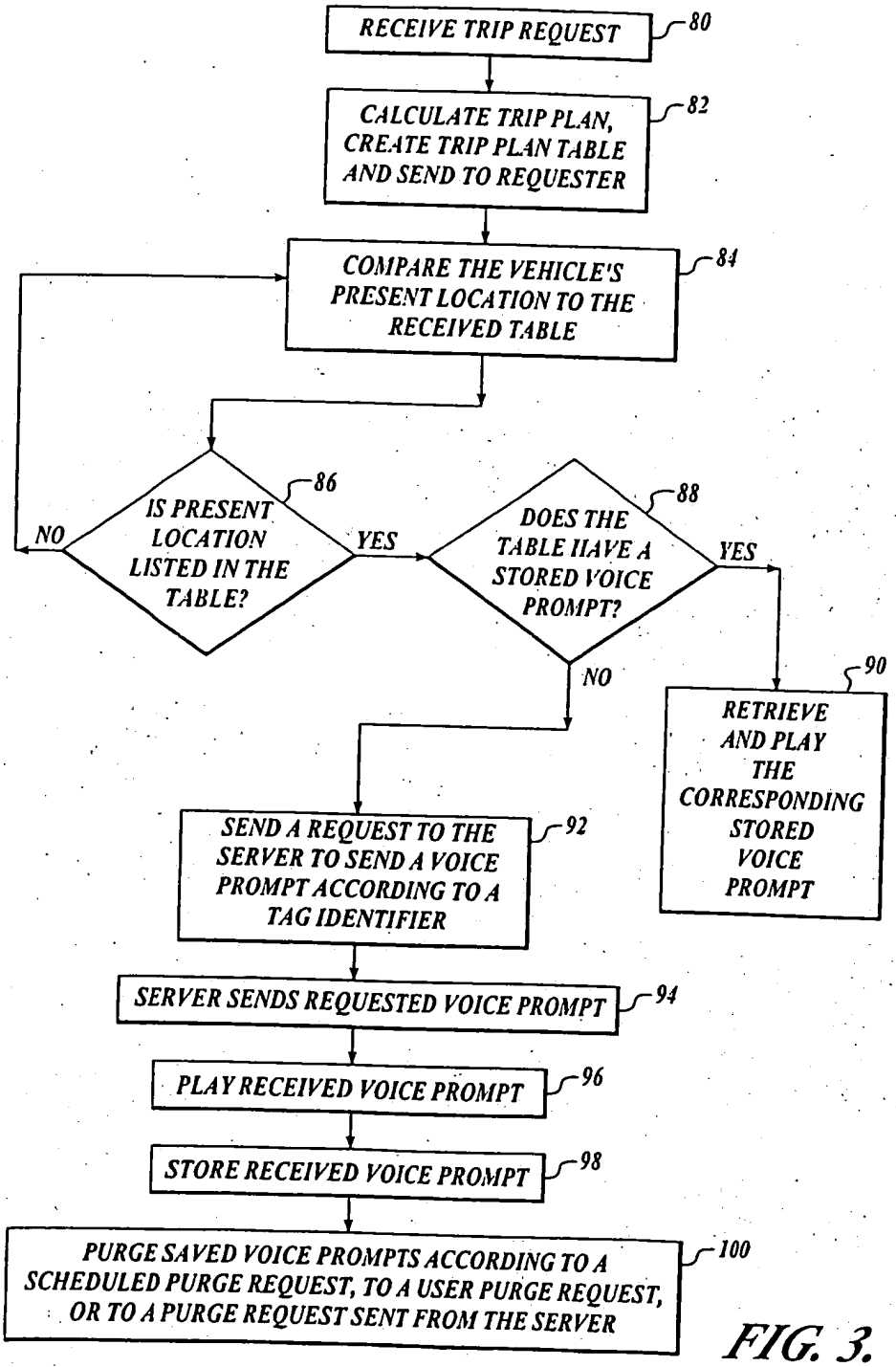
RECEIVE TRIP REQUEST
80
CALCULATE TRIP PLAN, CREATE TRIP PLAN TABLE AND SEND TO REQUESTER
82
COMPARE THE VEHICLE'S PRESENT LOCATION TO THE RECEIVED TABLE
84
IS PRESENT LOCATION LISTED IN THE TABLE?
86
NO
YES
DOES THE TABLE HAVE A STORED VOICE PROMPT?
88
YES
NO
RETRIEVE AND PLAY THE CORRESPONDING STORED VOICE PROMPT
90
SEND A REQUEST TO THE SERVER TO SEND A VOICE PROMPT ACCORDING TO A TAG IDENTIFIER
92
SERVER SENDS REQUESTED VOICE PROMPT
94
PLAY RECEIVED VOICE PROMPT
96
STORE RECEIVED VOICE PROMPT
98
PURGE SAVED VOICE PROMPTS ACCORDING TO A SCHEDULED PURGE REQUEST, TO A USER PURGE REQUEST, OR TO A PURGE REQUEST SENT FROM THE SERVER
100

FIG. 3.